





Solus Loop Radiators Novus Wall Radiators Somerset & Bedford Indirect Radiator

CATALOG G.

1912

National Radiator Company Johnstown, Pa.



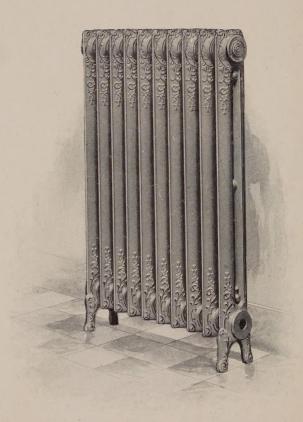
Introductory

POR the convenience of the trade we have compiled the following pages, illustrating our complete line of radiators independent of boilers and specialties.

All our radiators are now assembled with our *improved malleable slip nipples*, *a* feature that will be *appreciated* by those who want the very best that can be procured in radiator construction.

IMPORTANT-Beginning May 1st, 1913, all Solus radiators will be tapped solld. Kindly provide accordingly in your roughing in measurements. If you wish bushed tappings it will be necessary to so state on your order.





Solus Single Column Radiator
Assembled with heavy malleable push nipples



List of Sizes of the Solus Single Column Radiator

		38 In.	32 In.	26 In.	23 In.	20 In.
	Length	High	High	High	Hlgh	High
Sec.	2½ In.	3 Ft.	2½ Ft.	2 Ft.	12/3 Ft.	1½ Ft.
	per Sec.	per Sec.	per Sec.	per Sec.	per Sec.	per Sec.
2	5	6	5	4	3½ 5	3
3 4 5 6 7 8 9	71/2	9	71/2	6 8	5	41/2
4	10	12	10	8	62/3	6
5	121/2	15	121/2	10	81/3	71/2
6	15	18	15	12	10	9
7	171/2	21	171/2	14	112/3	101/2
8	20	24	20	16	13½ 15	12
9	221/2	27	221/2	18	15	131/2
10	25	30	25	20	162/3	15
11	271/2	33	271/2	22	181/3	161/2
12 13	30	36	30	24 26	20	18
	321/2	39 42	$\frac{32\frac{1}{2}}{35}$	28	212/3	$\frac{19\frac{1}{2}}{21}$
14 15	35	42	$\frac{35}{37\frac{1}{2}}$.30	$\frac{23\frac{1}{3}}{25}$	221/2
16	$\frac{37\frac{1}{2}}{40}$	48	40	32	262/3	$\frac{24}{24}$
17	421/2	51	421/2	34	$\frac{2073}{28\frac{1}{3}}$	$25\frac{1}{2}$
18	45	54	45	36	30	$\frac{2372}{27}$
19	471/2	57	471/2	38	$31\frac{2}{3}$	281/2
20	50	60	50	40	331/3	30
21	521/2	63	521/2	42	35	311/2
$\frac{1}{22}$	55	66	55	44	36%	33
23	571/2	69	571/2	46	381/3	341/2
24	60	72	60	48	40	36
25	$62\frac{1}{2}$	75	$62\frac{1}{2}$	50	412/3	$37\frac{1}{2}$
26	65	78	65	52	431/3	39
27	671/2	81	$67\frac{1}{2}$	54	45	$40\frac{1}{2}$
28	70	84	70	56	$46\frac{2}{3}$	42
29	721/2	87	$72\frac{1}{2}$	58	481/3	$43\frac{1}{2}$
30	75	90	75	60	50	45
31	771/2	93	771/2	62	512/3	$46\frac{1}{2}$
32	80	96	80	64	531/3	48

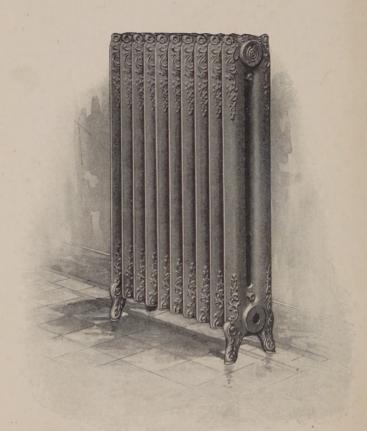
Regular Tappings for Solus Single Column Radiator

25 square feet and under inch	
Over 25 but not to exceed 60 square feet	
Over 60 but not to exceed 100 square feet	
Over 100 square feet	
TWO-PIPE STEAM	

Distance from floor to center of tapping boss for water or feed end of two-pipe steam, 5 inches. Distance from floor to bottom of opening for one-pipe steam or return end of two-pipe steam, 3% inches. Width of radiator, 4% inches. Width of feet,

All dimension in The content way is the 1213 tall solves the second of the pead solid. Mindly provide incharged religious is n Weigraphous hind and provide incharged religious in Weigraphous hind all measurements. Le libey our wish is bushed thappoints it will be necessary to so state on your order.





Solus Two Column Radiator
Assembled with heavy malleable push nipples



List of Sizes of Solus Two-Column Radiator.

Elst of bizes of being 1 to committee							
	Length	45 In. High	38 In. High	32 In. High	26 In. High	23 In. High	20 In. High
Sec.	2 ½ In.		4 Ft.	31/3 Ft.	23/3 Ft.	21/3 Ft.	2 Ft.
	per Sec	per Sec.		per Sec.	per Sec.	per Sec.	per Sec.
	per beer	per been					
2	5	10	8	62/3	51/3	42/3	4
2	71/2	15	12	10	8	7	6
3 4	10	20	16	131/3	10%	91/3	8
5	121/2	25	20	162/3	131/3	112/3	10
6	15	30	$\frac{1}{24}$	20	16	14	12
6 7	171/2	35	28	231/3	18%	161/3	14
8	20	40	32	262/3	211/3	182/3	16
9	221/2	45	36	30	24	21	18
10	25	50	40	331/8	26%	231/3	20
11	271/2	55	44	362/3	291/3	$25\frac{2}{3}$	22
12	30	60	48	40	32	28	24
13	321/2	65	52	431/3	342/3	301/3	26
14	35	70	56	46%	371/3	$32\frac{2}{3}$	28
15	371/2	75	60	50	40	35	30
16	40	80	64	531/3	42%	371/3	32
17	421/2	85	68	562/3	451/3	39%	34
18	45	90	72	60	48	42	36
19	471/2	95	76	631/3	502/3	441/3	38
20	50	100	80	662/3	531/8	46%	40
21	521/2	105	84	70	56	49	42
22	55	110	88	731/3	582/3	511/3	44
23	571/2	115	92	76%	611/3	532/3	46
24	60	120	96	80	64	56	48
25	621/2	125	100	831/3	662/8	581/3	50
26	65	130	104.	863/3	691/3	602/3	52
27	671/2	135	108	90	72	63	54
28	70	140	112	931/3	742/3	651/3	56
29	721/2	145	116	96%	771/3	672/3	58
30	75	150	120	100	80	70	60
31	771/2	155	124	1031/3	823	721/3	62
32	80	160	128	106%	851/3	742/3	64

Regular Tappings for Solus Two Column Radiator ONE-PIPE STEAM

25 square feet and	l under1	inch
Over 25 but not to	exceed 60 square feet	inch
Over 60 but not to	exceed 100 square feet	inch
Over 100 square for	eet2	inch
Over 100 square 1	TWO-PIPE STEAM	
	1 11 0-1 11 11 11 11 11 11 11 11	

50 square feet and under...... inch by 34 inch Over 50 but not to exceed 100 square feet.....11/4 inch by 1 Over 100 square feet......1½ inch by 1¼ inch WATER

50 square feet and under.....1 inch by 1 inch Over 50 but not to exceed 90 square feet......11/4 inch by 11/4 inch

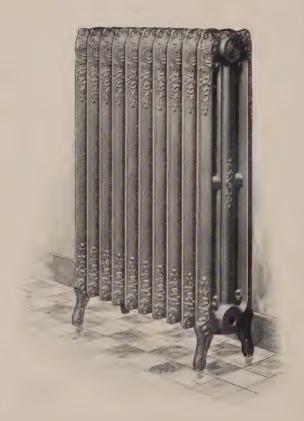
8 inches.

All dimensions for lengths of radiators are from outside to outside of tapping bosses.

Note .- After February 1, 1913, all Water Radiators will be

Note.—After February 1, 1913, all Water Radiators with tapped live included to size. Where tapping is less than 11/2 incl. III On the Note of the Strain radiators will be tapped the strain radiators will be tapped solld. Kindly provide accordingly in your roughing in measurements. If you wish bushed tappings it will be necessary to co state on you





Solus Three Column Radiator Assembled with heavy malleable push nipples



List of Sizes of the Solus Three Column Radiator

1713	C OI DI	203 01	the b	Orus II	iree Coi	ullill Ite	talator
		45 In.		32 In.	26 In.	23 In.	20 In.
	Length	High	High	High	High	High	High
Sec.	2½ In.	6 Ft.	5 Ft.	4½ Ft.	3¾ Ft.	3¼ Ft.	23% Ft.
	per Sec.	per Sec.		per Sec.	per Sec.	per Sec.	per Sec.
	pox soo.	por noo.	Portocor	per bee:	Por Booi	per beer	per see
. 2	5	12	10	9	71/2	61/2	51/2
3	71/2	18	15	131/2	111/4	934	81/4
4	10 2	24	20	18	15	13	11
5	121/2	30	25	$\frac{13}{22\frac{1}{2}}$	183/4	161/4	133/4
6	15	36	30	$\frac{2272}{27}$	$\frac{1074}{22\frac{1}{2}}$	191/2	161/2
7	171/2	42	35	31½	$\frac{2272}{26\frac{1}{4}}$	223/4	1914
8	20	48	40	36	30	26	22
9	221/2	54	45	401/2	333/4	291/4	243/4
10	$\frac{2272}{25}$	60	50	45	371/2	321/2	$27\frac{1}{2}$
11	271/2	66	55	491/2	411/4	353/4	301/4
12	30	72	60	54^{9}	45	39	33
13	321/2	78	65°	581/2	483/4	421/4	35%
14	35	84	70	63	$52\frac{1}{2}$	451/2	381/2
15	37½	90	75	$67\frac{1}{2}$	561/4	$48\frac{3}{4}$	411/4
16	40	96	80	$72^{07/2}$	60	52	44
17	421/2	102	85	761/2	63 3/4	551/4	463/4
18	45	108	90	81	671/2	581/2	491/2
19	471/2	114	95	851/2	$71\frac{1}{4}$	$61\frac{36}{4}$	$52\frac{1}{4}$
20	50	120	100	90	75	65	55
21	521/2	126	105	941/2	783/4	681/4	$57\frac{3}{4}$
22	55	132	110	99	821/2	$71\frac{1}{2}$	601/2
23	$57\frac{1}{2}$	138	115	1031/2	861/4	743/4	$63\frac{1}{4}$
$\frac{23}{24}$	60	144	120	$103\frac{7}{2}$ 108	90	78	66
$\frac{24}{25}$	$62\frac{1}{2}$	150	125	1121/2	9334	811/4	6834
	65		130	$\frac{1127}{117}$			
26	00	$\frac{156}{162}$	135	1211/2	971/2	841/2	$71\frac{1}{2}$
27	671/2		140		1011/4	873/4	74¼ 77
28	70	168		126	105	91	
29	721/2	174	145	1301/2	1083/4	941/4	7934
30	75	180	150	135	1121/2	971/2	821/2
31	771/2	186	155	1391/3	1161/4	10034	851/4
32	80	192	160	144	120	104	88

Regular Tappings for Solus Three Column Radiator

25 square feet and under1	inch
Over 25 but not to exceed 60 square feet	4 inch
Over 60 but not to exceed 100 square feet	inch
Over 100 square feet	inch
TWO-PIPE STEAM	
50 square feet and under inch by 8	inch

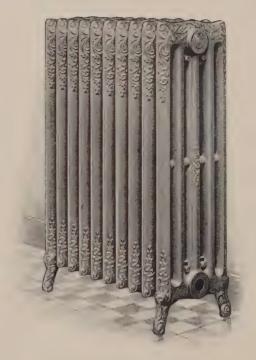
over 50 but not to exceed 100 square feet......1½ inch by 1 ' inch
over 100 square feet......1½ inch by 1½ inch
WATER

Distance from floor to center of tapping boss for water or feed end of two-pipe steam, 51/4 inches. Distance from floor to bottom of opening for one-pipe steam or return end of two-pipe steam, 41/8 inches. Width af radiator, 8% inches. Width of feet, 9% inches.

All dimensions for lengths of radiators are from outside to outside of tapping bosses.

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Solus Five Column Radiator
Assembled with heavy malleable push nipples
10



List of Sizes of Solus Five Column Window Radiator

Sec.	Length 2 ½In. per Sec.	37 In. High 8 Ft. per Sec.	33 In. High 7 Ft. per Sec.	27 In. High 6 Ft. per Sec.	22 In. High 5 Ft. per Sec.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 20 21 22 23 24 25 26 27 28	5 714 10 12½ 15 17½ 20 22½ 25 27½ 30 32½ 35 37½ 40 42½ 45 47½ 50 52½ 65 67½ 70	16 24 32 40 48 56 64 72 80 88 96 104 112 120 128 136 144 152 160 188 176 188 176 188 192 200 208 216 224	14 21 28 35 42 49 56 63 70 77 84 91 98 105 112 119 126 133 140 147 154 161 168 175 182 189	12 18 24 30 36 42 48 54 60 66 72 78 84 90 96 102 108 114 120 132 138 144 150 156 162 168	10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 90 105 110 115 120 125 130 135 140
29 30 31 32	$ \begin{array}{c c} 72\frac{1}{2} \\ 75 \\ 77\frac{1}{2} \\ 80 \end{array} $	232 240 248 256	203 210 217 224	174 180 186 192	145 150 155 160

Regular Tappings for Solus Five Column Radiator

ONE-PIPE STEAM

	under1	
	exceed 60 square feet11/4	
	exceed 100 square feet	
Over 100 square fe	et2	inch

TWO-PIPE STEAM

	under1			
Over 50 but not to	exceed 100 square feet 11/4	inch b	y 1 i	nch
Over 100 square fee	et	inch b	v 11/4 i	nch

WATER





Solus Five Column Window Radiator
Assembled with heavy malleable push nipples
12



List of Sizes of the Solus Five Column Radiator

DIDE O.	DIEGO GI			
Sec.	Length 2½ In. per Sec.	20 In. High 5 Ft. per Sec.	17 In. High 4 Ft. per Sec.	14 In. High 3 Ft. per Sec.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 27 28	5 77½ 10 12½ 15 17½ 20 2½ 25 27½ 30 32½ 35 37½ 40 42½ 45 47½ 50 52½ 55½ 665 67½ 70	10 15 20 25 30 35 40 45 50 55 60 60 65 70 75 80 85 90 105 110 115 120 125 130 135 140	8 12 16 20 24 28 32 36 40 44 48 52 56 60 64 68 72 76 80 84 88 92 96 100 104 108 112	6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 57 60 63 66 69 72 75 78 81
29 30 31	72½ 75 77½	145 150 155 160	116 120 124 128	87 90 93 96
32	80	, 100	120	90

Regular Tappings Solus Five Column Window Radiator ONE-PIPE STEAM

25 square feet and	1 under1	inch
Over 25 but not to	exceed 60 square feet	inch
	exceed 100 square feet	
Over 100 square f	eet2	inch

TWO-PIPE STEAM

	nder1				
	xceed 100 square feet $1\frac{1}{4}$				
Over 100 square feet.	1½	inch	bу	11/4	inch
	WATER				

Distance from floor to center of tapping boss for water or feed end of two-pipe steam, 3½ inches. From floor to bottom of opening for one-pipe steam or return end of two-pipe steam, 2½ inches. Width of radiator, 12 inches. Width of feet, 12½ inches.

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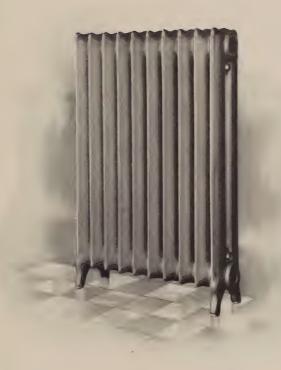


Solus Single Column Plain Radiator

Made in all heights.

Assembled with heavy malleable push nipples



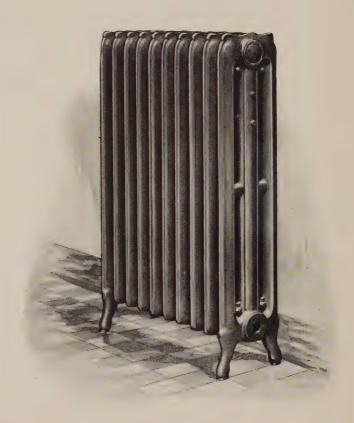


Solus Two Column Plain Radiator

Made in all heights except 45-inch.

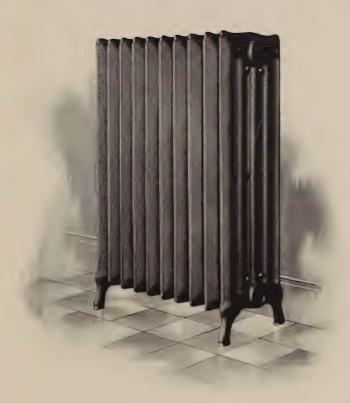
Assembled with heavy malleable push nipples
15





Solus Three Column Plain Radiator
Made in all heights.
Assembled with heavy malleable push nipples





Solus Five Column Plain Radiator

Made in all heights.

Assembled with heavy malleable push nipples
17



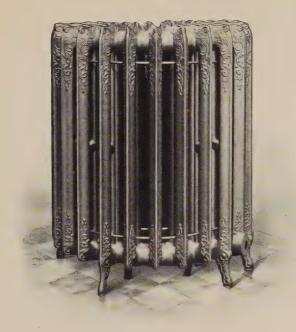


Solus Two Column Hospital Radiator Assembled with heavy malleable push nipples

Note.—All ratings and measurements are the same as regular two column radiators except that Hospital Radiators are 3 inches per section in length.

18





Solus Circular Radiator

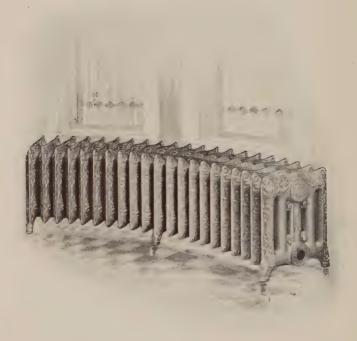
Made in all heights of one, two or three column patterns.

Solus Circular Radiators are furnished in two pieces, forming two separate radiators, which can be placed around post or column. Tapping on each half is furnished regular unless otherwise ordered.

Dimensions Three Column

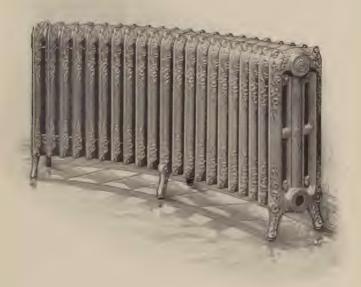
No. Sections	Outside Diam. Legs Inches	. Legs Diam. Legs No.		Outside Inside Diam. Legs Inches Inches		
16	261/2	7	24	31	11½	
18	271/2	8	26	3 1½	12	
20	29	91/2	28	33	131/2	
22	30½	11	30	341/2	15	





Solus Five Column Curved Window Radiator
We can furnish Curved Window Radiators to suit
any radius. In ordering curved radiators specify the
exact radius of the base board within which the radiator is to be placed, or send template.





Solus Curved Radiators

We can furnish Curved Radiators made in any pattern or height to suit any radius. In ordering curved radiators specify the exact radius of the base board within which the radiator is to be placed, or send template.

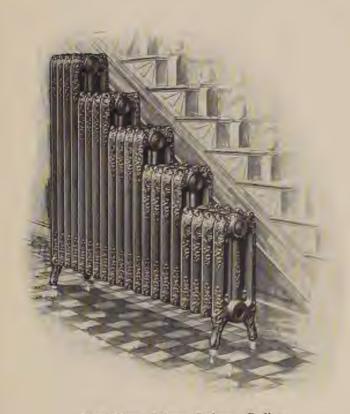




Solus Corner Radiators

Corner Radiator made in all patterns and heights for any angle. We use four sections for making a 90 degree angle corner on all patterns except five column, on this pattern we use six sections. In ordering corner radiators, send sketch giving the angle of corner, and distance radiator can extend in each direction, also show which end of radiator is to have supply leg.



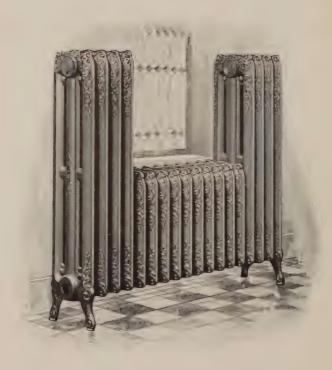


Solus Three Column Stairway Radiator

Stairway radiators are made to include all heights except 23-inch. For Ratings see page 9.

Note.—That for water radiators for stairways we cast a special boss in center of section to connect to top of the next lowest group of sections, thereby giving perfect circulation, and requiring but one air valve to exhaust the air.



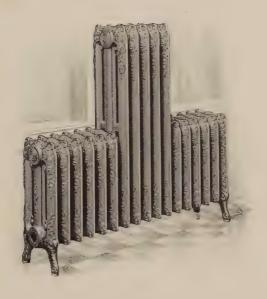


Solus Three Column Window Radiator

Made in all heights. For ratings see page 9.

24



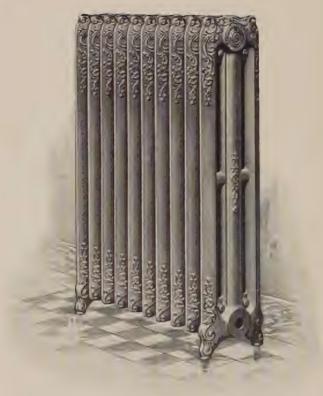


Solus Three Column Window Radiator

Made in all heights. For ratings see page 9.

25

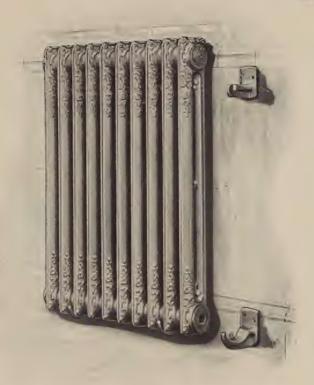




Solus Three Column Radiator With low feet

All patterns and heights of Solus Radiators, except Five Column Window Patterns, can be turnshed with special low feet, making the radiator 2 inches lower than regular height. All tappings would be correspondingly 2 inches lower than given in regular list.



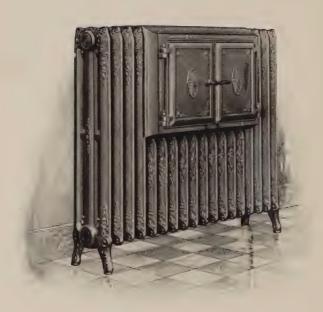


Solus Single Column Radiator

Supported on concealed brackets.

! Where it is necessary to support radiators in such a manner that they will hang closely to the wall and also be elevated from the floor we furnish Concealed Brackets for either Single Column, Two Column or Three Column paterns. Distance from wall to center of tapping boss is, on single column, 3 inches, two column, 5 inches, three column, 5 inches, three column, 5 inches. A set consists of one top and one bottom bracket as shown at side of radiator. Two sets will support medium-sized radiators.

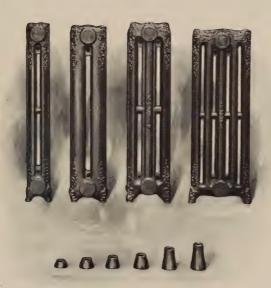




Solus Three Column Dining-Room Radiator Made in 38-inch height only.

No. Length	Heating Surface	No.	Length	Heating Surface				
1 30 inches	371/2 square ft.	6 5	5 inches	871/2 square ft.				
2 35 inches	471/2 square ft.	7 6	0 inches	97½ square ft.				
3 40 inches	571/2 square ft.	8 6	5 inches	107 1/2 square ft.				
4 45 inches			0 inches	1171/2 square ft.				
5 50 inches	77½ square ft.	10 7	5 inches	127½ square ft.				
The Solus	Dining Room Radi	ator ha	as double	doors, and two				
shelves each 2	25 inches long and	12 in	ches wide	e, with 7½-inch				
space between. Distance from wall to center of tapping should								
not be less than 61/2 inches.								





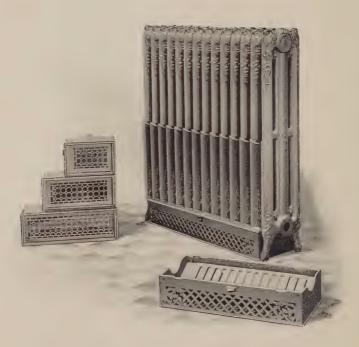
Radiator Pedestal and Solus End Sections

With special low feet.

Pedestal to fit under any pattern of Solus Radiators can be furnished in the following heights: 1 inch, 1½ inches, 2 inches, 2½ inches, 3 inches, 3½ inches, 4 inches, 4½ inches, 5 inches and 5½ inches.

All patterns and heights of Solus Radiators, except Five Column Window Patterns, can be furnished with special low feet, making the radiator 2 inches lower than the regular height. All tappings would be correspondingly 2 inches lower than in regular list.





Solus Three Column Semi-Direct Radiator And cold air boxes. (See Page 31.)
30

Re

Solus Three Column Semi-Direct Radiator

THE cuts illustrate our Solus Semi-Direct Radiator and the base detatched. For simplicity and effectiveness this device is not equaled.

In the construction of the dampers there is not a bolt or joint to become detached or get out of order. The operation is so simple that the slightest pressure or foot movement will open or close the dampers, which may also be adjusted to take all or part of the air from either outside or inside of the room. One base answers for either back or bottom inlet, consequently the fitter can make no mistake in ordering and be subjected to vexatious delays.

More air can be admitted and passed over a greater amount of heating surface than in any Semi-Direct attachment heretofore devised. The entire base may be removed for cleaning without disconnecting the radiator.

The largest base is made for a 14-section radiator, and may be used with larger radiators containing an even number of sections; a 13-section base may be used on larger radiators containing an odd number of sections.

Openings for fresh air inlets from back of radiators are as follows:

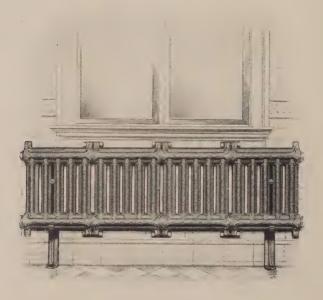
All the above are outside measurements and ½ inch above the floor line.

Bottom or floor openings may be made any width up to 5 inches, measuring from back of base, and any length up to 29 inches for a 14-section base, deducting 2½ inches for each section on shorter bases.

Improved Cold Air Boxes

On page 30 we show our improved cold air boxes. These boxes are substantially constructed, being both storm and insect proof. Outside measurements are No. 1, 5½x9½ inches; No. 2, 5½x13½ inches, and No. 3, 5½x17 inches.





Novus Wall Radiator

Four 14-inch sections.

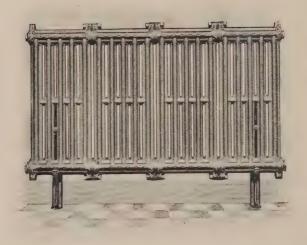
Assembled with heavy malleable push nipples 32





Novus Wall Radiator
Four 20-inch sections.
Assembled with heavy malleable push nipples
33





Novus Wall Radiator
Four 28-inch sections.
Assembled with heavy malleable push nipples
34

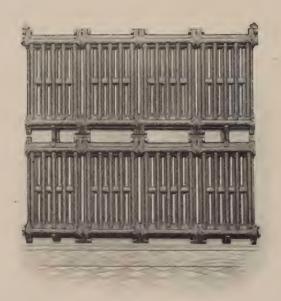




Novus Wall Radiator
Four 36-inch sections.

Assembled with heavy malleable push nipples
35





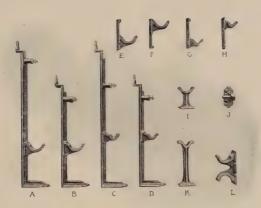
Novus Wall Radiator

Eight 20-inch sections double tier.

Assembled with heavy malleable push nipples

36





Novus Wall Radiator Brackets and Supports

A-Pedestal Support, 26 inches high.

B-Pedestal Support, 20 inches high.

C-Pedestal Support, 26 inches high.

D-Pedestal Support, 20 inches high.

A and B both made to support radiator either 4, 6 or

8 inches from floor to center of opening.

C and D. These supports can only be used for single radiators with bars running horizontal and outlets on bottom side. Distance from floor to bottom of radiator 8 inches.

E and F, Plain Wall Brackets. F can be used as a

top bracket for long radiators.

G and H. Can only be used on single sections with bars running horizontal.

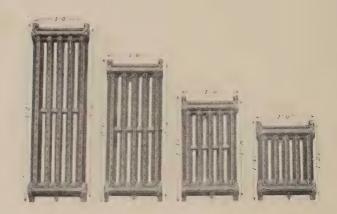
I, Small pedestal support. From floor to center of

outlet 4½ inches.

- J, Top Bracket to fit into opening on the lug on end sections. Can also be used for bottom brackets on small radiators.
- K, Pedestal support—can only be used for single sections with bars running horizontal, distance from floor to bottom of radiator 7 inches.

L, Special Bracket to be used where one tier of section is placed above the other, as shown on page 36.





Novus Wall Radiators

The Novus sections are connected with taper push nipples. This form of assembling insures perfectly tight joints under all conditions.

The nipples have larger inside area than used in any other type of wall radiator, giving more rapid circulation of water and quicker drainage of condensation.

The Novus is made in four sizes of sections, measurements as above.

36 in. high, 12 in. wide; ht., including lugs, 38 in., 9½ sq. ft. surf. 28 in. high, 12 in. wide; ht., including lugs, 30 in., 7½ sq. ft. surf. 20 in. high, 12 in. wide; ht., including lugs, 22 in., 6 sq. ft. surf. 14½ in. high, 12 in. wide; ht., including lugs, 16½ in., 4½ sq. ft. surf.



A Few Reasons Why the Novus is Superior to Screw-Nipple Types.

The tubes always stand vertical, insuring rapid circulation and perfect drainage.

Paper washers are not depended upon to make tight joints. Expansion and contraction invariably cause leaks at joints made in this manner.

A joint made with taper push nipple, once tight, is always tight.

It takes less time to assemble the Novus when shipped knocked down than it does to assemble screw-nipple,

No special tools or bars are required; an ordinary monkey wrench is all that is needed.

A section can be taken from the center of a long radiator without disconnecting all the sections until the one wanted is reached.

The joints cannot be made to leak, under any conditions, from expansion caused by steam or hot water.

The design being neat and the ornamentation artistic, it can be used in the finest apartments.

If intended for steam, and when so ordered, we make the Novus connected at the bottom only, a special feature not applicable to the old style of wall radiators.

Having only one form of assembling, the "vertical" saves confusion in making out orders and the delays that are often caused by additional correspondence when this information is not given. The four sizes made enable the fitter to make up radiators from 14½ to 36 inches high, without having one ther of sections above the other and connecting with hexagon nipples, a source of trouble and annoyance.

All openings for connections are tapped 1½-inch right-hand. Where smaller size connections are required we use ornamental bushings.

In ordering it is necessary to give number of sections in each radiator, height of same, size of tapping, and state if for water or steam.

If supports or wall brackets are wanted, order by letter (see page 37). We do not ship brackets unless ordered, as many of our customers supply their own supports.

We can furnish our customers with 10-inch drop-forged steel wrenches to fit nuts in assembling the Novus.

Where it is necessary to use radiators higher than 36 inches, we recommend assembling as shown on page 36, using the most convenient form of pipe connections. This gives ample chance for expansion and contraction, and overcomes leaky joints, caused by making rigid connections with hexagon nipples. For supporting radiators built in this manner, we can supply our special "L" bracket, shown on page 37. This bracket can be screwed to the wall after lower half of radiator is put in place, and provides a very neat and substantial support.



Indirect Radiators

N bringing out our new pattern Somerset and Bedford Indirect Radiators, we have the best mechanically constructed and most efficient Indirect Radiator now made.

The sections are assembled with 2-inch heavy malleable push nipples, making a perfectly tight joint that is indestructible.

The easy manner in which the sections can be drawn together will appeal to the fitter who has ever had any experience with indirects connected with right and left hand screw nipples, especially when of the water type connected top and bottom.

To assemble our new pattern Indirect all you need is a small monkey wrench to draw up the nuts on the short bolts.

The new Somerset section is made in three sizes, for either steam or water. The 37-inch section contains 15 square feet of heating surface, the 31-inch section contains 12½ square feet heating surface and the 25-inch section contains 10 square feet of heating surface.

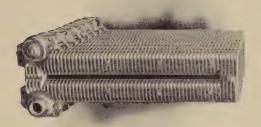
The new Bedford section is made in three sizes for steam only. The 37-inch section contains 15 square feet of heating surface, the 31-inch section contains 12½ square feet heating surface and the 25-inch section contains 10 square feet of heating surface.

All outlets for feed and return are tapped 2-inch right hand and bushed to size according to regular tapping list for Solus radiators. If location of tapping is desired other than regular we can supply special tapping with top inlet or bottom outlet 1½-inch size or smaller.

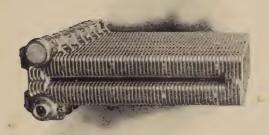
Width each section occupies in stack, $3\frac{1}{2}$ inches, or when specially ordered to give additional air area this can be increased to 4 inches or $4\frac{1}{2}$ inches by using extra long nipples.

New Somerset Indirect Radiator For steam and Water. Especially adapted for Cooling Coils, where steam is furnished from Central Heating Plants





New Bedford Indirect Radiator For Steam only.



Section Feet	Length Over All Inches	Height at Connecting End Inches	Height of Section Inches	Price per Section	Price per Foot	
15 $12\frac{1}{2}$ 10	$\begin{array}{c c} 37 \frac{5}{8} \\ 31 \frac{5}{8} \\ 25 \frac{5}{8} \end{array}$	$\begin{array}{c c} 14\frac{1}{4} \\ 14\frac{1}{4} \\ 14\frac{1}{4} \end{array}$	9½ 9¼ 9¼ 9¼	\$4 05 3 37½ 2 70	\$0 27 27 27	

Note.—For convenience in handling, all Indirect sections will be a charge of one cent per foot will be made to cover cost of assembling. Customers should, when ordering, be particular to specify the number of stacks into which the sections are to be built, so that the necessary vent section may be shipped.





Novus Plate Warmer

This combined Plate Warmer and Pantry Radiator is especialy adapted for hotels and restaurant kitchens, but will be found quite convenient for residence pantries. It is built from our Novus Wall Radiator sections with any number of shelves using one or more sections for each shelf.

Price List and Dimensions.

State									
No.	Shelves	Heating Surface Feet	Length Inches	Height Inches	Width Inches	Price			
No. 1—22 No. 2—22 No. 3—22 No. 1—30 No. 2—30 No. 1—38 No. 2—38 No. 3—38	1 2 3 1 2 3 1 2 3	$\begin{array}{c} 6 \\ 13 \\ 20 \\ 7\frac{1}{2} \\ 16 \\ 24\frac{1}{2} \\ 9\frac{1}{2} \\ 20 \\ 30\frac{1}{2} \end{array}$	22 22 22 30 30 30 38 38 38	8 18 28 8 18 28 8 18 28	16 16 16 16 16 16 16 16	\$ 6 50 13 00 20 00 8 00 16 00 24 00 9 50 19 00 29 00			

Special sizes can be made using two or more sections for each shelf. Prices quoted on application.



Directions for Ordering Radiators

HEN ordering radiators, much valuable time can be saved by following the directions given below. Printed forms for ordering will be mailed customers on application. Give full name of radiator.

With every order give full shipping instructions.

Always state whether for steam or water, and give heights.

If for steam, specify whether for one or two-pipe work.

When ordering leg sections, advise whether for supply or return connection, also stating size of tapping required, and whether for use on one or two-pipe steam, or for water.

When ordering leg or intermediate sections, it is desirable to give date of invoice covering radiators for which the loose sections are wanted.

In ordering radiators, keep as close as possible to regular goods; special tappings and shapes frequently cause delay.

For convenience in handling, customers should, as far as possible, avoid ordering Direct Radiators in larger than a 32-section stack. Radiators of 1,000 pounds weight or over are liable to be strained or broken in transportation, and it is recommended that customers order these large radiators shipped in halves.

In ordering Curved or Corner Radiators, specify exact radius or angle of the baseboard at floor within which the radiator is to be placed, and show by sketch which end of radiator is for supply connection and which for return, as you face the inside of curve or angle.

For convenience in handling, Indirect Radiators will be shipped loose. Customers should, when ordering, be particular to specify the size of stacks into which sections are intended to be built, so that necessary supply and return sections may be shipped.

Without instructions, we make all shipments by the shortest and quickest route known to us at released rates, and when goods are receipted for by the railroad company our responsibility ceases. Claims for breakage or delay in transit must be made to railroad company.

- If, for any reason, customers desire to return goods, they must first advise us and have the conditions upon which the goods will be received agreed upon. This is necessary, owing to the fact that all radiators returned must be retested and the sizes invariably changed, involving quite an item of expense. AVERY LIBRARY
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